FIG.1

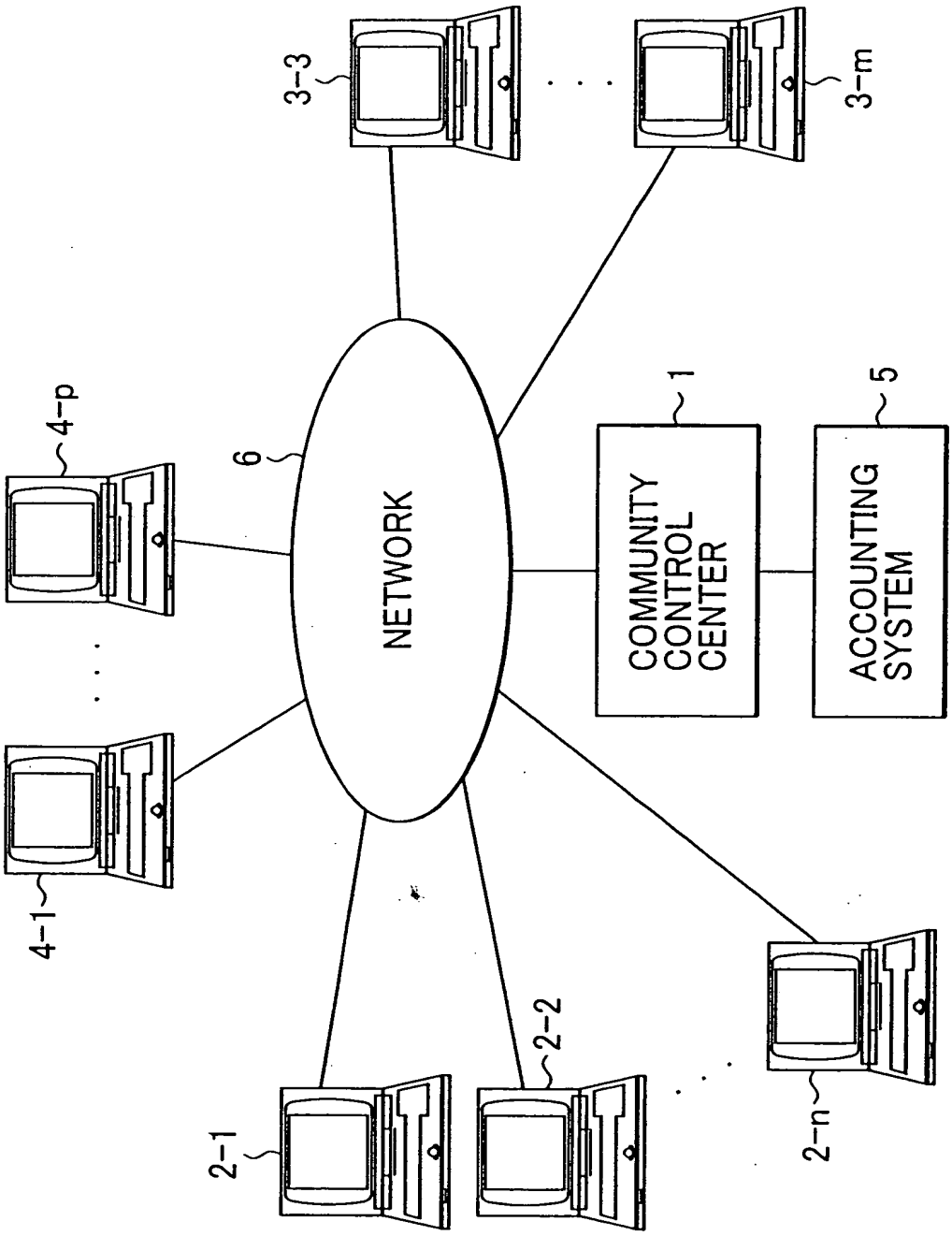

NETWORK
6
COMMUNITY CONTROL CENTER
1
ACCOUNTING SYSTEM
5
3-3
3-m
4-p
4-1
2-1
2-2
2-n

FIG.2

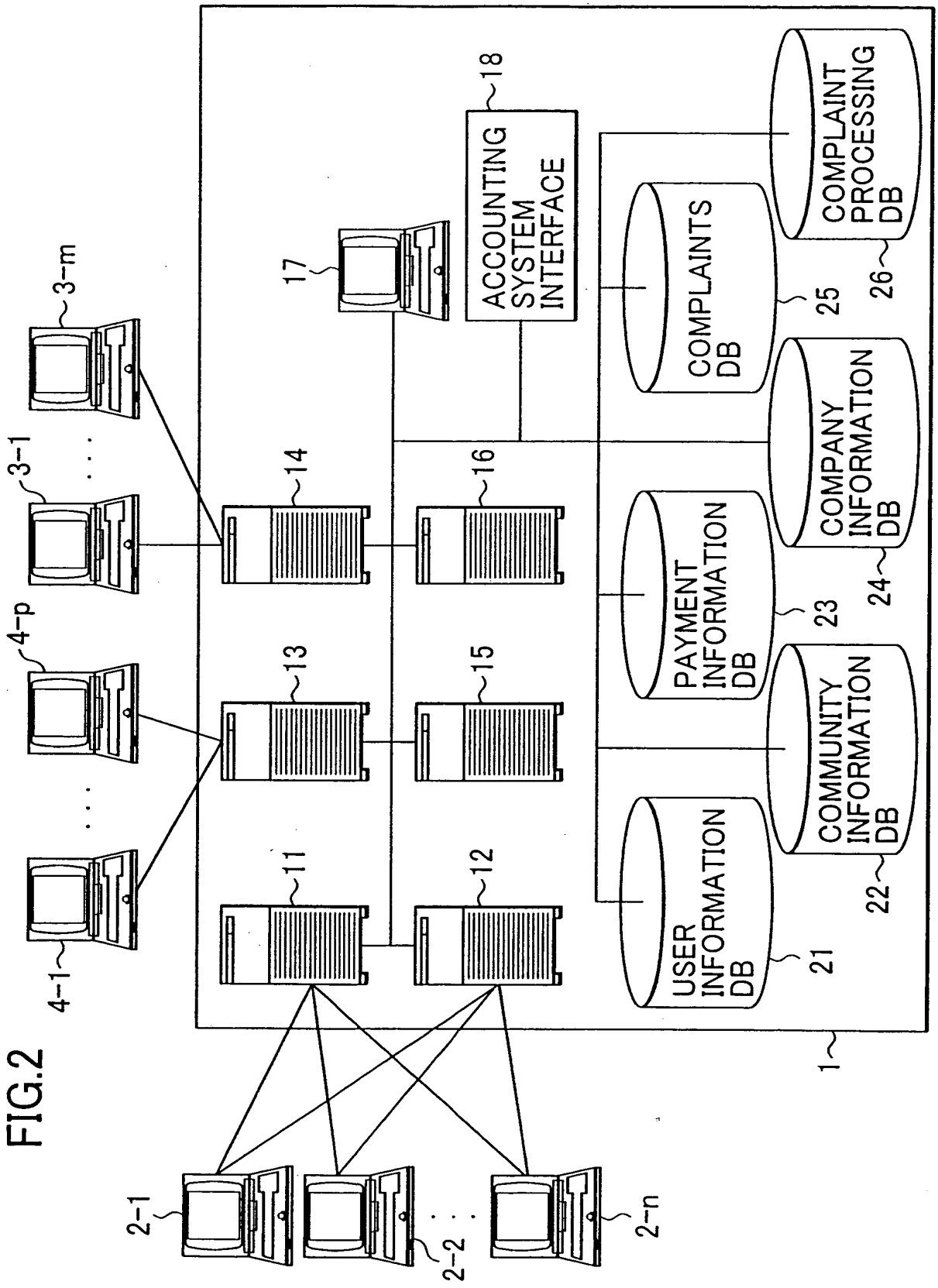

1
2-1
2-2
2-n
3-1
3-m
4-1
4-p
11
12
13
14
15
16
17
18
ACCOUNTING SYSTEM INTERFACE
USER INFORMATION DB
21
COMMUNITY INFORMATION DB
22
PAYMENT INFORMATION DB
23
COMPANY INFORMATION DB
24
COMPLAINTS DB
25
COMPLAINT PROCESSING DB
26

FIG.3

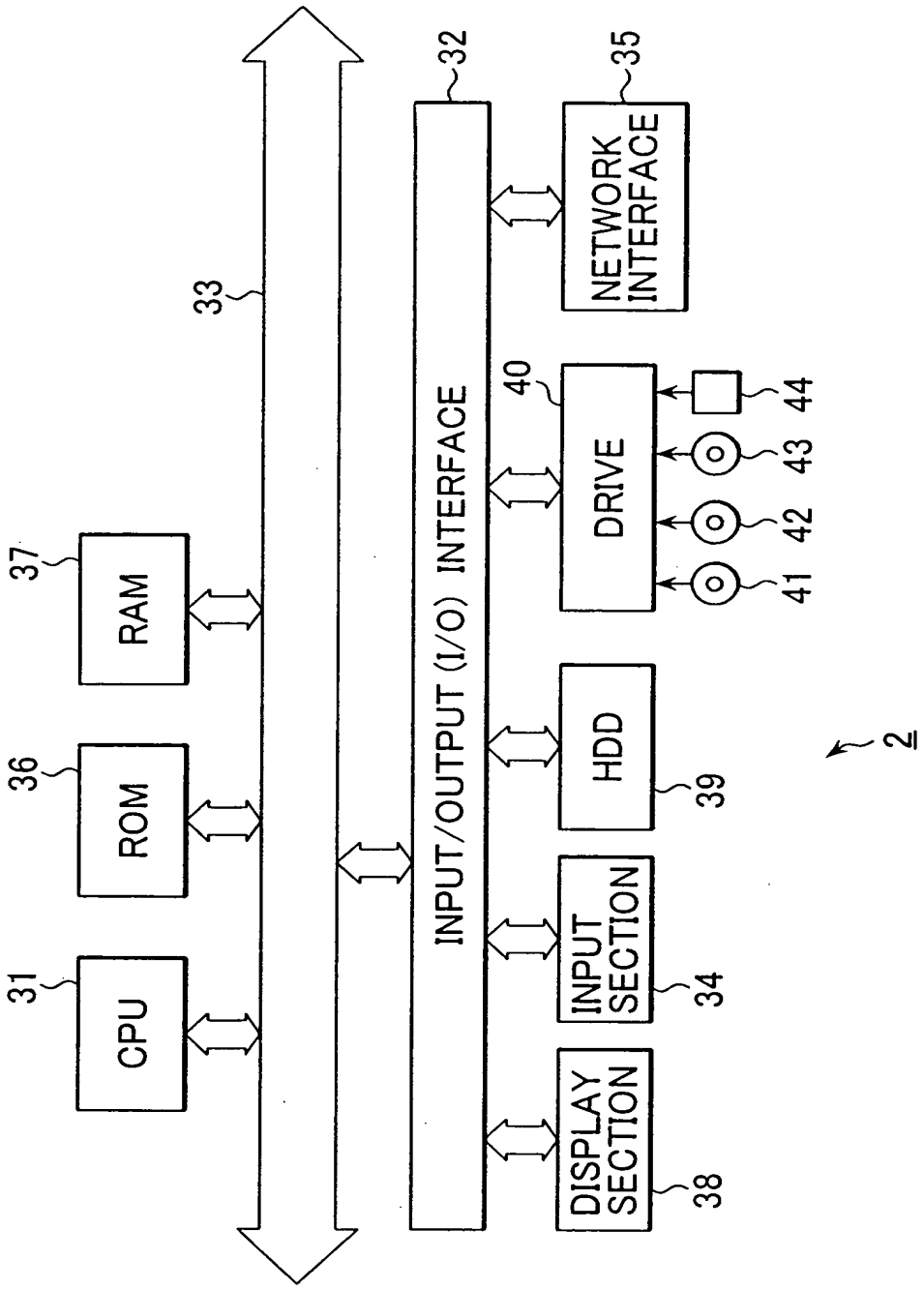

CPU
31
ROM
36
RAM
37
33
INPUT/OUTPUT (I/O) INTERFACE
32
DISPLAY SECTION
38
INPUT SECTION
34
HDD
39
DRIVE
40
41
42
43
44
NETWORK INTERFACE
35
2

FIG.4

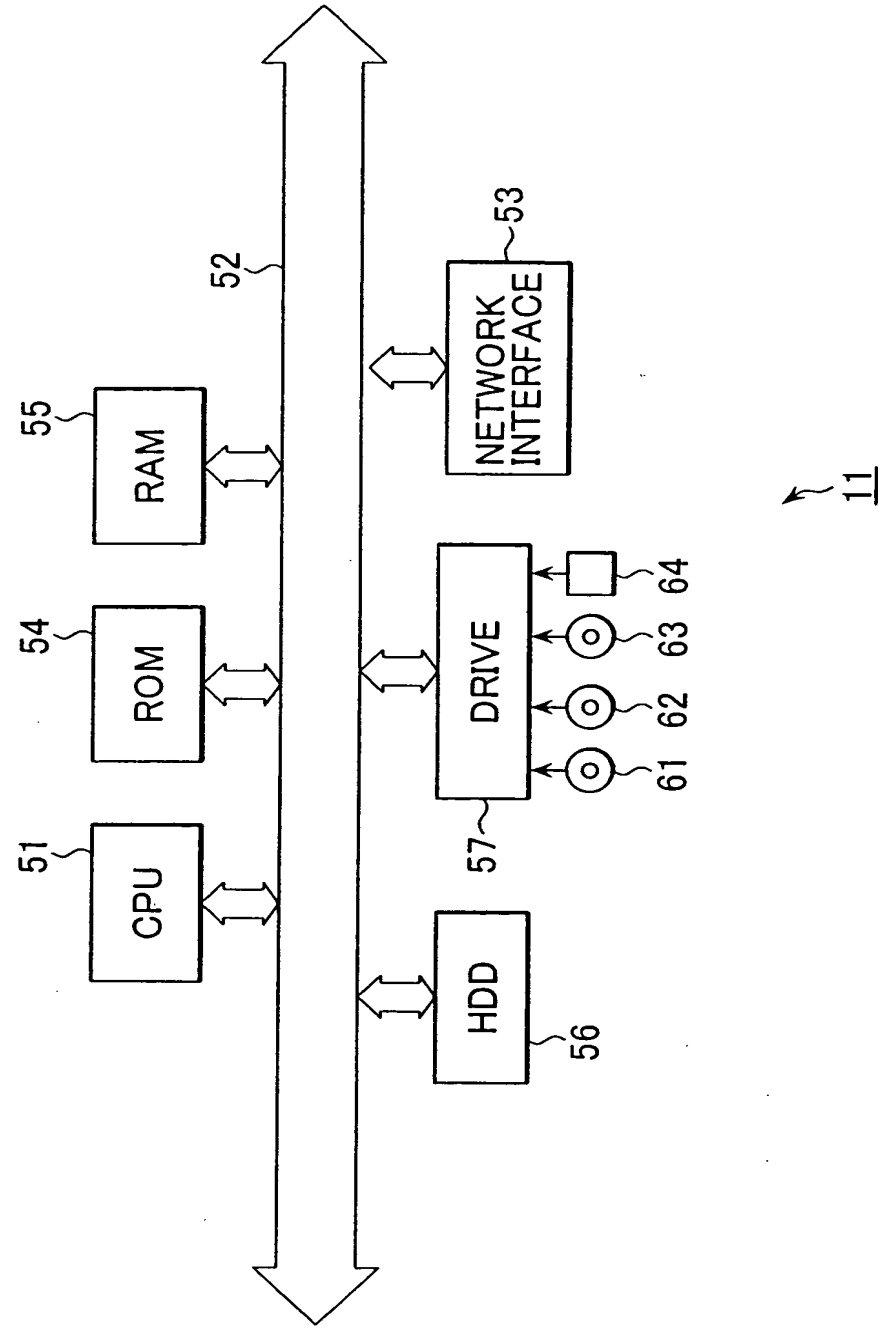

11
52
53
NETWORK INTERFACE
55
RAM
54
ROM
51
CPU
DRIVE
57
64
63
62
61
HDD
56

FIG.5

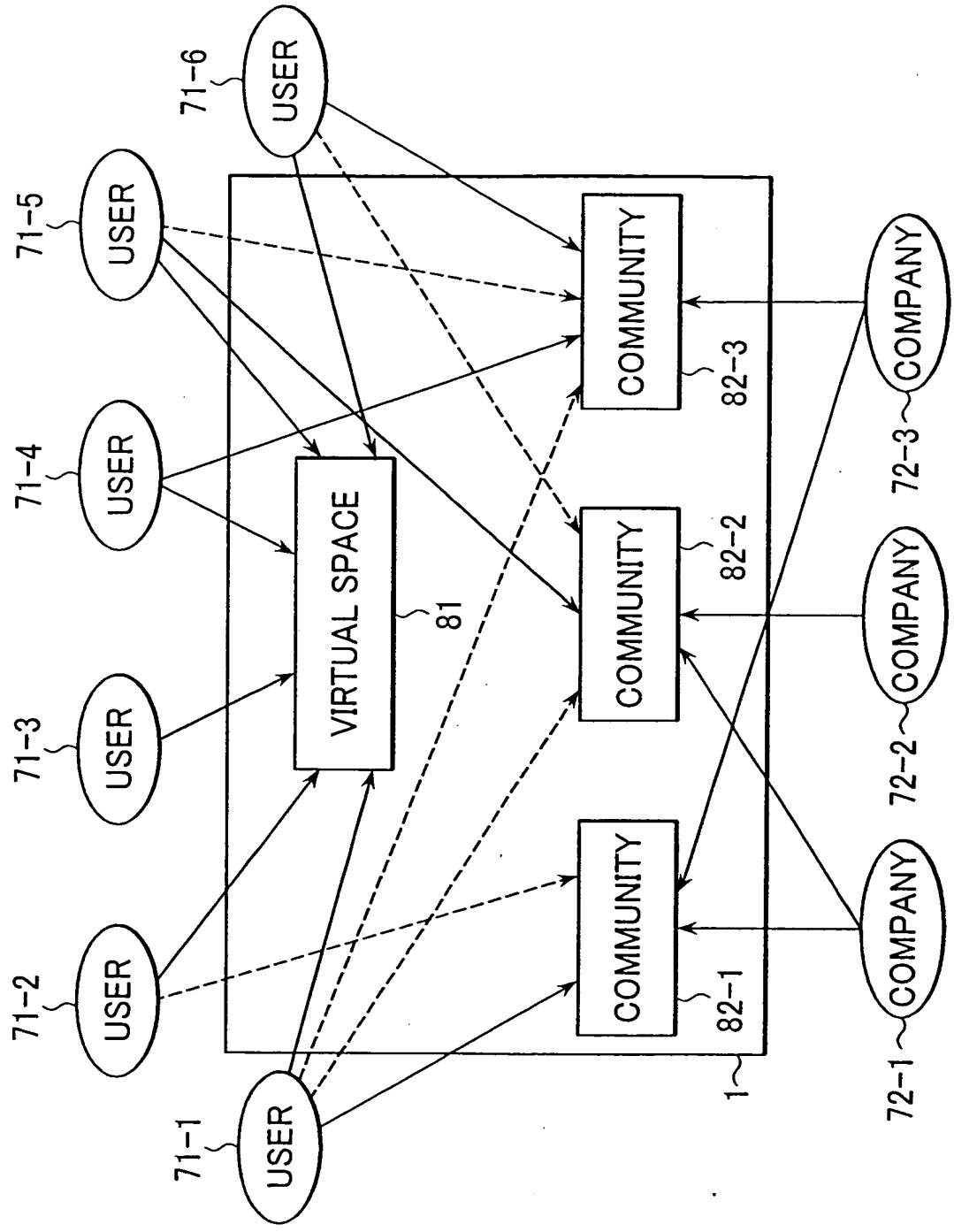

71-1
USER
71-2
USER
71-3
USER
71-4
USER
71-5
USER
71-6
USER
VIRTUAL SPACE
81
COMMUNITY
82-1
COMMUNITY
82-2
COMMUNITY
82-3
1
72-1
COMPANY
72-2
COMPANY
72-3
COMPANY

FIG.6

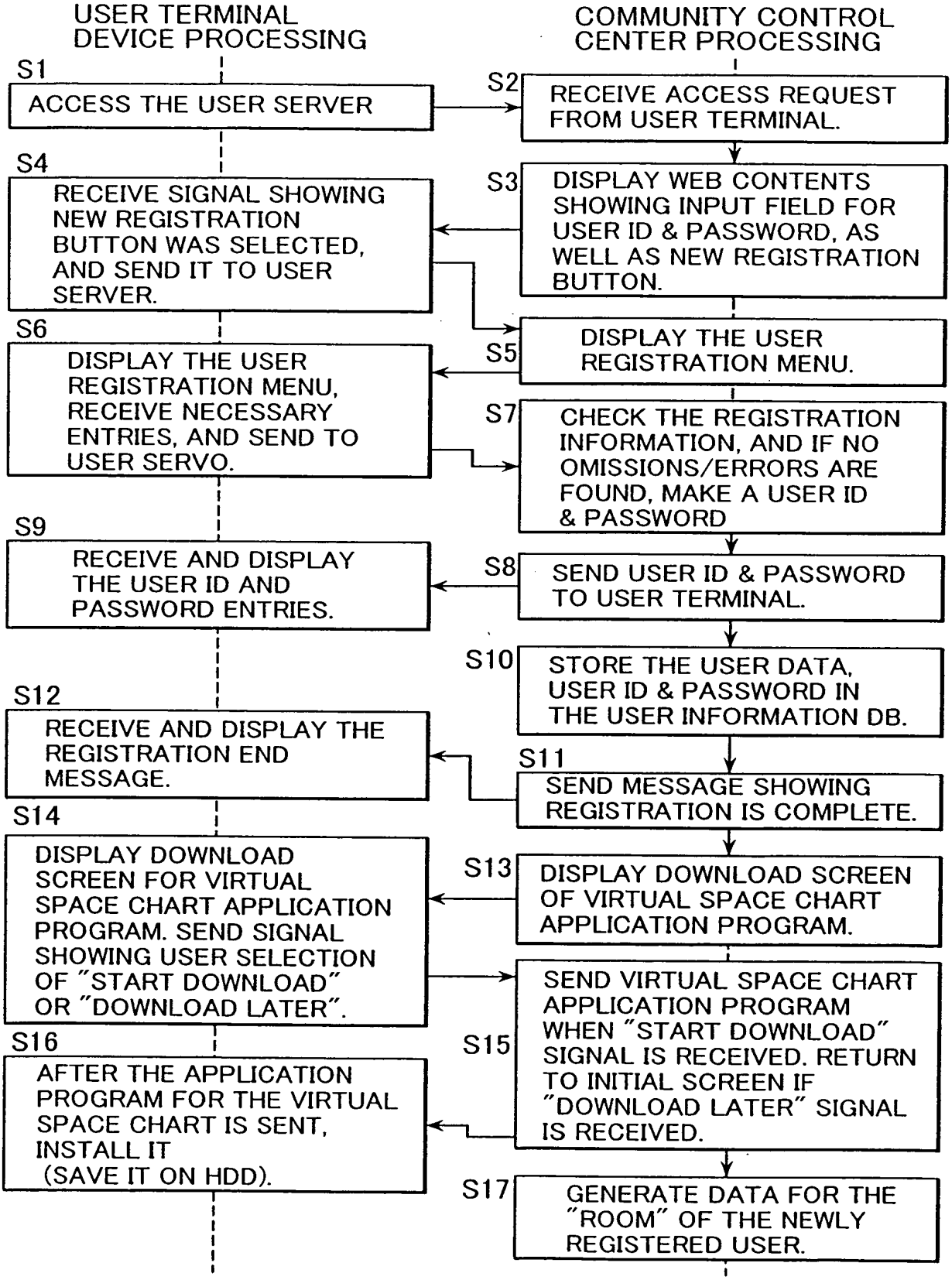

USER TERMINAL DEVICE PROCESSING
COMMUNITY CONTROL CENTER PROCESSING
S1
ACCESS THE USER SERVER
S2
RECEIVE ACCESS REQUEST FROM USER TERMINAL.
S3
DISPLAY WEB CONTENTS SHOWING INPUT FIELD FOR USER ID & PASSWORD, AS WELL AS NEW REGISTRATION BUTTON.
S4
RECEIVE SIGNAL SHOWING NEW REGISTRATION BUTTON WAS SELECTED, AND SEND IT TO USER SERVER.
S5
DISPLAY THE USER REGISTRATION MENU.
S6
DISPLAY THE USER REGISTRATION MENU, RECEIVE NECESSARY ENTRIES, AND SEND TO USER SERVO.
S7
CHECK THE REGISTRATION INFORMATION, AND IF NO OMISSIONS/ERRORS ARE FOUND, MAKE A USER ID & PASSWORD
S8
SEND USER ID & PASSWORD TO USER TERMINAL.
S9
RECEIVE AND DISPLAY THE USER ID AND PASSWORD ENTRIES.
S10
STORE THE USER DATA, USER ID & PASSWORD IN THE USER INFORMATION DB.
S11
SEND MESSAGE SHOWING REGISTRATION IS COMPLETE.
S12
RECEIVE AND DISPLAY THE REGISTRATION END MESSAGE.
S13
DISPLAY DOWNLOAD SCREEN OF VIRTUAL SPACE CHART APPLICATION PROGRAM.
S14
DISPLAY DOWNLOAD SCREEN FOR VIRTUAL SPACE CHART APPLICATION PROGRAM. SEND SIGNAL SHOWING USER SELECTION OF "START DOWNLOAD" OR "DOWNLOAD LATER".
S15
SEND VIRTUAL SPACE CHART APPLICATION PROGRAM WHEN "START DOWNLOAD" SIGNAL IS RECEIVED. RETURN TO INITIAL SCREEN IF "DOWNLOAD LATER" SIGNAL IS RECEIVED.
S16
AFTER THE APPLICATION PROGRAM FOR THE VIRTUAL SPACE CHART IS SENT, INSTALL IT (SAVE IT ON HDD).
S17
GENERATE DATA FOR THE "ROOM" OF THE NEWLY REGISTERED USER.

FIG.7

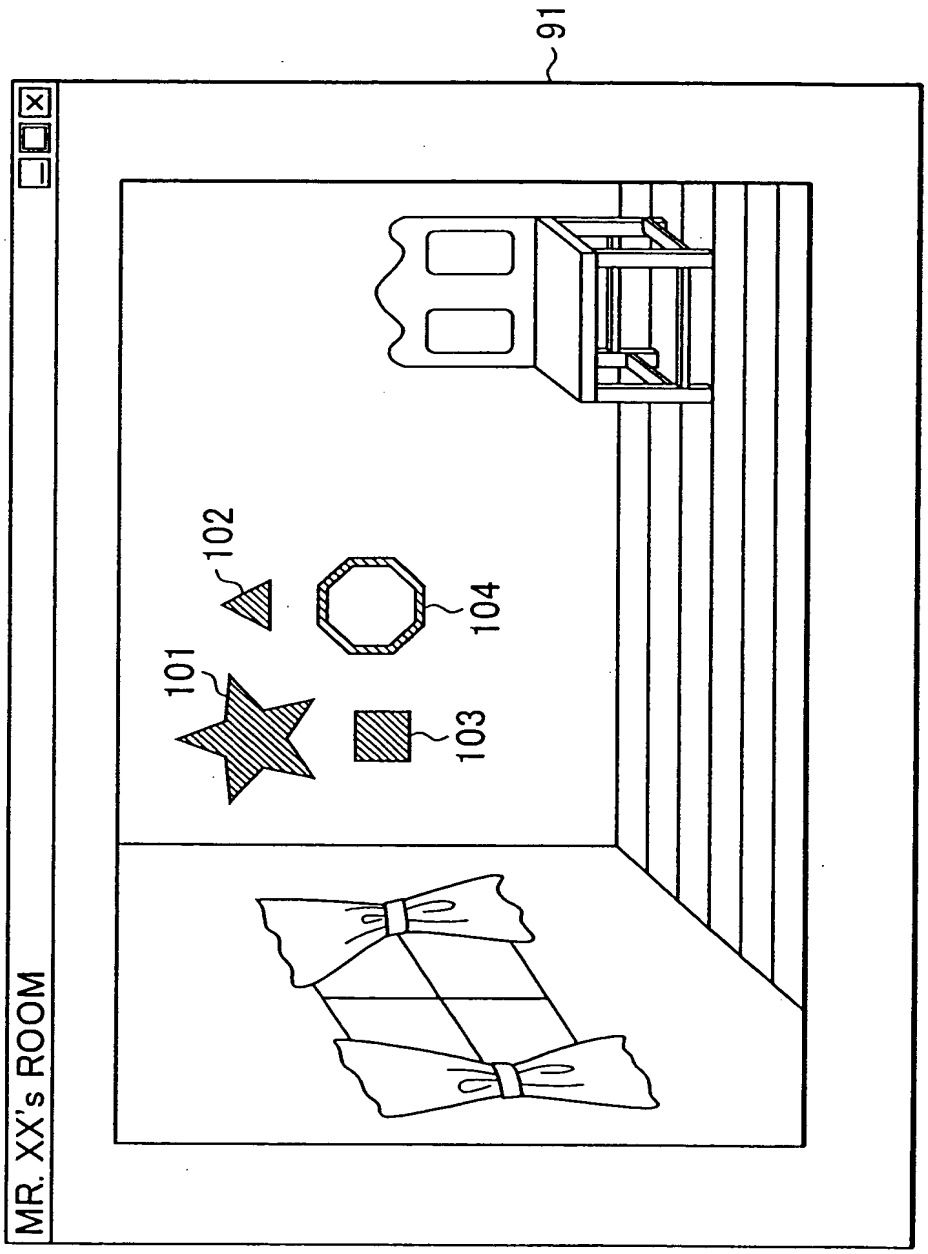
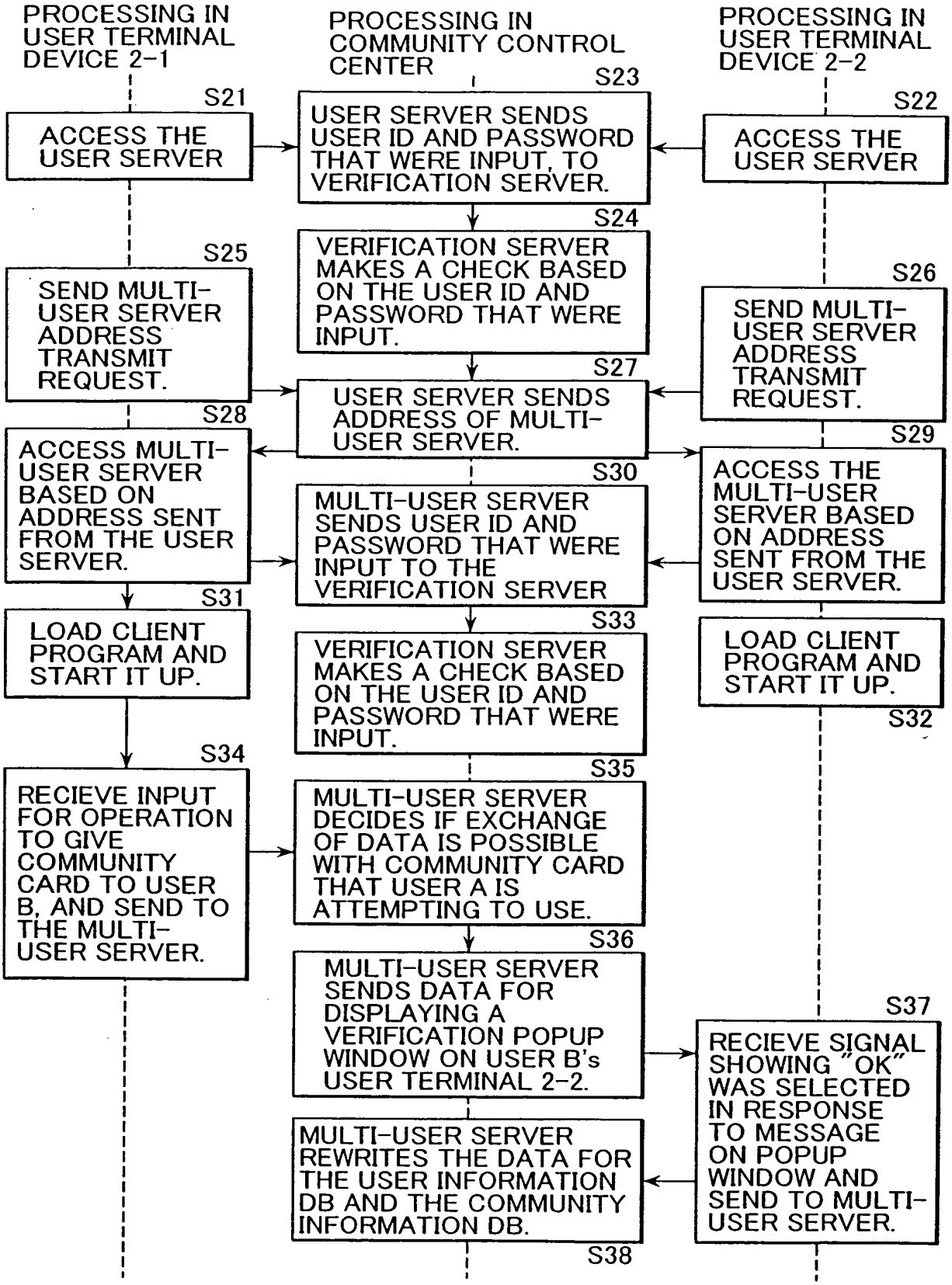


FIG.8


PROCESSING IN USER TERMINAL DEVICE 2-1
PROCESSING IN COMMUNITY CONTROL CENTER
PROCESSING IN USER TERMINAL DEVICE 2-2
S21
ACCESS THE USER SERVER
S23
USER SERVER SENDS USER ID AND PASSWORD THAT WERE INPUT, TO VERIFICATION SERVER.
S22
ACCESS THE USER SERVER
S24
VERIFICATION SERVER MAKES A CHECK BASED ON THE USER ID AND PASSWORD THAT WERE INPUT.
S25
SEND MULTI-USER SERVER ADDRESS TRANSMIT REQUEST.
S26
SEND MULTI-USER SERVER ADDRESS TRANSMIT REQUEST.
S27
USER SERVER SENDS ADDRESS OF MULTI-USER SERVER.
S28
ACCESS MULTI-USER SERVER BASED ON ADDRESS SENT FROM THE USER SERVER.
S29
ACCESS THE MULTI-USER SERVER BASED ON ADDRESS SENT FROM THE USER SERVER.
S30
MULTI-USER SERVER SENDS USER ID AND PASSWORD THAT WERE INPUT TO THE VERIFICATION SERVER
S31
LOAD CLIENT PROGRAM AND START IT UP.
S33
VERIFICATION SERVER MAKES A CHECK BASED ON THE USER ID AND PASSWORD THAT WERE INPUT.
LOAD CLIENT PROGRAM AND START IT UP.
S32
S34
RECIEVE INPUT FOR OPERATION TO GIVE COMMUNITY CARD TO USER B, AND SEND TO THE MULTI-USER SERVER.
S35
MULTI-USER SERVER DECIDES IF EXCHANGE OF DATA IS POSSIBLE WITH COMMUNITY CARD THAT USER A IS ATTEMPTING TO USE.
S36
MULTI-USER SERVER SENDS DATA FOR DISPLAYING A VERIFICATION POPUP WINDOW ON USER B's USER TERMINAL 2-2.
S37
RECIEVE SIGNAL SHOWING "OK" WAS SELECTED IN RESPONSE TO MESSAGE ON POPUP WINDOW AND SEND TO MULTI-USER SERVER.
MULTI-USER SERVER REWRITES THE DATA FOR THE USER INFORMATION DB AND THE COMMUNITY INFORMATION DB.
S38

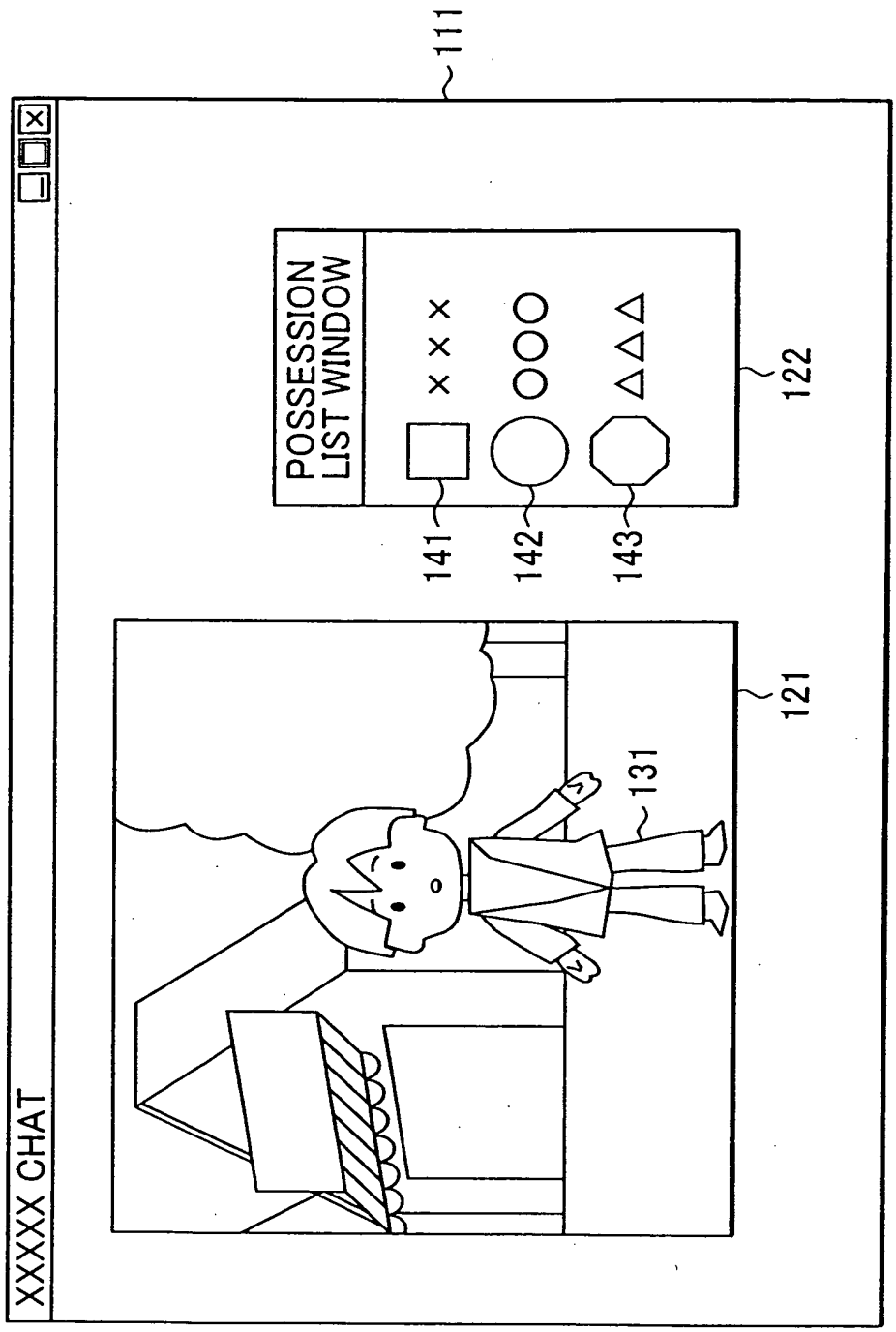



FIG.9